

LISTING OF CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A prosthetic device for repairing or replacing cartilage or cartilage like-tissue (1) comprising:
 - at least one layer comprising at least partially oriented fibers (2),
 - a base component (4) to anchor said at least one layer of fibers (2) in subchondral environment and
 - a stabilization area (3) provided between said at least one layer comprising fibers (2) and said base component (4),wherein said fibers (2) are aligned essentially in parallel to the insertion axis of the prosthetic device and form a brush-like structure.
2. (Original) The device according to claim 1, wherein said fibers (2) are aligned to more than 50, preferably more than 90 %.
3. (Currently amended) The device according to claim 1-~~or 2~~, wherein the fiber material (2) includes a mineral

material, synthetic polymers or molecules, natural polymers or molecules, biotechnologically derived polymers or molecules, biomacromolecules, or any combination thereof.

4. (Original) The device according to claim 3, wherein the fiber diameter is in a range of 50 nm to 1 mm.
5. (Original) The device according to claim 4, wherein said fiber diameter is in a range of 1 μ m to 250 μ m.
6. (Currently amended) The device according to ~~any of claims 3-to-5~~, wherein the fibers (2) have a liquid absorbing capacity in a range of 0,1 to 99,9 %.
7. (Original) The device according to claim 6, wherein said liquid absorbing capacity is in a range of 20,0 to 99,0 %.
8. (Currently amended) The device according to claim 6-~~or 7~~, wherein the liquid is an aqueous solution and/or body fluids.
9. (Currently amended) The device according to ~~at least one of claims 1-to-8~~, wherein the base component (4) comprises a material used as a bone substitute.

10. (Currently amended) The device according to claim 9, wherein said bone substitute is a mineral material, synthetic polymers or molecules, natural polymers or molecules, biotechnologically derived polymers or molecules, biomacromolecules, or any combination thereof ~~a material as defined in claim 3.~~
11. (Original) The device according to claim 9, wherein said material is a synthetic ceramic containing at least one of the following components: calcium phosphate, calcium sulfate, calcium carbonate, or any mixture thereof.
12. (Original) The device according to claim 11, wherein said calciumphosphate containing at least one of the following components: di-calciumphosphatedihydrate ($\text{CaHP}_4 \times 2\text{H}_2\text{O}$), dicalciumphosphate (CaHP_4), alpha-tricalciumphosphate ($\text{alpha-Ca}_3(\text{P}_4)_2$), beta-tricalciumphosphate ($\text{betaCa}_3(\text{P}_4)_2$), calcium deficient hydroxylapatite ($\text{Ca}_9(\text{P}_4)_5(\text{HP}_4)\text{OH}$), hydroxylapatite ($\text{Ca}_{10}(\text{P}_4)_6\text{OH}_2$), carbonated apatite ($\text{Ca}_{10}(\text{P}_4)_3(\text{CO}_3)_3(\text{OH})_2$), fluorapatite ($\text{Ca}_{10}(\text{P}_4)_6(\text{F},\text{OH})_2$), chlorapatite ($\text{Ca}_{10}(\text{P}_4)_6(\text{Cl},\text{OH})_2$), whitlockite ($(\text{Ca},\text{Mg})_3(\text{P}_4)_2$), tetracalciumphosphate ($\text{Ca}_4(\text{P}_4)_2\text{O}$), oxyapatite ($\text{Ca}_{10}(\text{P}_4)_6\text{O}$), beta-calciumpyrophosphate ($\text{beta-Ca}_2(\text{P}_2\text{O}_7)$), alpha-calciumpyrophosphate, gama-calcium-pyrophosphate, octacalciumphosphate ($\text{Ca}_8\text{H}_2(\text{P}_4)_6 \times 5\text{H}_2\text{O}$).
13. (Original) The device according to claim 9, wherein said material is a synthetic ceramic containing metallic, semimetallic ions, and/or non-metallic ions,

preferably magnesium, silicon, sodium, potassium, and/or lithium.

14. (Currently amended) The device according to ~~any of the claims 9-11b,~~ wherein the material is a composite material comprising at least a polymer component and a mineral phase.

15. (Currently amended) The device according to ~~any of claims 9-to 14,~~ wherein the bone substitute material is highly porous with interconnecting pores.

16. (Currently amended) The device according to ~~any of claims 9-to 15,~~ wherein the shape of the base component (4) is round, cylindrical, or conical.

17. (Original) The device according to claim 16, wherein the diameter of the base component (4) ranges between 2 and 30 mm, with a height being 1 to 30 mm.

18. (Original) The device according to claim 16, wherein the diameter of the base component (4) ranges between 4 and 20 mm, with a preferred height being between 1 to 6 mm.

19. (Currently amended) The device according to ~~at least one of claims 1-to 18,~~ wherein said stabilization area (3) is a zone comprising at least one layer.

20. (Original) The device according to claim 19,

wherein said zone has a thickness of 1 nm to 1 mm.

21. (Currently amended) The device according to claim 19-~~or~~
20, wherein said zone is porous.
22. (Currently amended) The device according to ~~any of claims~~
~~19-to-21~~, wherein the layer system is composed of a
chemical substance.
23. (Currently amended) The device according to ~~at least one~~
~~of preceding claims~~ 1, further comprising at least one
externally added component.
24. (Original) The device according to claim 23,
wherein said components are cells of different origin.
25. (Original) The device according to claim 24,
wherein said cells are autologous cells, allogenous cells,
xenogenous cells, transfected cells and/or genetically
engineered cells.
26. (Currently amended) The device according to claim 23-~~24~~
~~or-25~~,
wherein chondrocytes, chondral progenitor cells,
pluripotent cells, tutipotent cells or combinations
thereof are present throughout the fiber layer(s)
(2).
27. (Currently amended) The device according to claim 23-~~24~~
~~or-25~~,

wherein osteoplasts, osteo progenitor cells, pluripotent cells, tutipotent cells or combinations thereof are present throughout the base component (4).

28. (Currently amended) The device according to claim 23, ~~24 or 25~~, wherein blood or any fraction thereof is present throughout the base component (4).
29. (Original) The device according to claim 23, wherein pharmaceutical compounds are contained.
30. (Currently amended) A prosthetic device for repairing or replacing cartilage or cartilage like-tissue (1) comprising:
 - at least one layer comprising at least partially oriented fibers (2),
 - a base component (4) to anchor said at least one layer of fibers (2) in subchondral environment and
 - a stabilization area (3) provided between said at least one layer comprising fibers (2) and said base component (4),wherein said fibers (2) are aligned essentially perpendicularly to a top surface of the base component facing the fibers.
31. (Currently amended) A prosthetic device for repairing or replacing cartilage or cartilage like-tissue (1) comprising:
 - at least one layer comprising fibers (2),

- a base component (4) to anchor said at least one layer of fibers (2) in subchondral environment and
- a cell barrier layer provided between said at least one layer comprising fibers (2) and said base component (4).

32. (Currently amended) ~~A use of the device according to at least one of the preceding~~ The device of claims 31, wherein the prosthetic device is adapted to be for implantedation in articulating joints in humans and animals.

33. (Currently amended) ~~The use according to device of~~ claim 32 wherein the prosthetic device for regeneration of articulator cartilagenous tissue.